PATENT ABSTRACTS OF JAPAN

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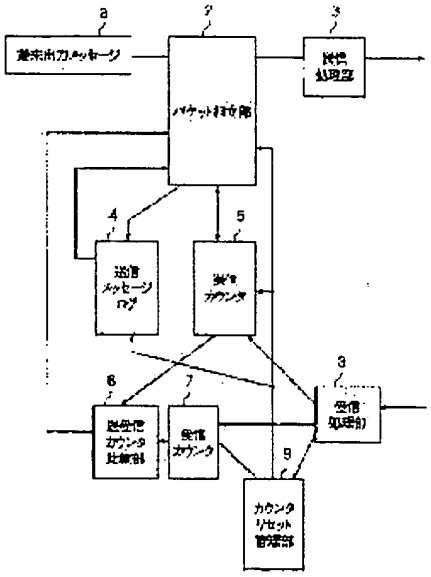
(71)Applicant : NEC CORP
(72)Inventor : ASO HIROSHI

(54) TRANSMISSION CONFIRMING METHOD FOR PACKET COMMUNICATION SYSTEM

(57)Abstract:
PURPOSE: To prevent the occurrence of the defect of data even if the disturbance of a line, etc., continues for a long period of time in a packet communication system.
CONSTITUTION: In transmitting side terminal equipment, a transmission counter 5 counts the number of messages transmitted by a packet assembling part 2. Then, the packet assembling part 2 transmits this count value to a receiving side at prescribed timing. In receiving side terminal equipment, a reception counter 7 counts the number of the messages transmitted from a transmitting side, and besides, the transmission counter 5 holds the count value from the above-mentioned transmitting side. Then, a transmission/reception counter 6 compares the count value of the reception counter 7 with the count value held by the transmission counter 5, and the packet assembling part 2 transmits this compared result to the transmitting side. In the transmitting side, a counter reset management part 9 receives this compared result, and if it indicates non-coincidence, it makes the packet assembling part 2 transmit the message stored in a transmission message log 4 to the receiving side.



Attorney's Reference No.: B026449 Mailing No.: 292103
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NOTICE OF REASONS FOR REJECTION

(Translation)

Patent Application No.: 2001-559224

Drafting Date: August 4, 2005

Patent Office Examiner: Kouji Tamaki 3047 5X00

Attorney for Patent Applicant: Takashi Ishida et al.

Applicable Provisions: Article 29, paragraph 2
Article 36

It is deemed that this application should be rejected for the following reasons. Any argument should be submitted in writing within **three months** from the mailing date of this notice.

REASONS

A. The inventions described in claims 16 to 29 of this application are deemed ones which could easily have been made, prior to the filing of the present application, by a person with ordinary skill in the art to which the inventions pertain, on the basis of the inventions described in the following publications distributed or made available to the public through telecommunication lines in Japan or a foreign country prior to the filing of the present application, and therefore are unpatentable under the provisions of Article 29, paragraph 2, of the Patent Law.

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B. The description of the specification and drawing of this application does not satisfy the requirements prescribed in Article 36, paragraphs 4 and paragraph 6, items 1 and 2, of the Patent Law on the following points.

Remarks (see the List of Cited References for the numbers of the cited references, etc.)

[Reason A]

- Claims 16 to 29
- Reference 1
- Remarks

Reference 1 discloses the following:

a transmitter counts the number of packets transmitted to a receiver by the transmitter and notifies the receiver of this count number periodically; and

the receiver counts the number of packets received from the transmitter and compares this count number with the count number notified by the transmitter and, if this compared result does not indicate coincidence, the receiver determines the occurrence of a packet loss or the like to send a request for retransmission and a request for counter reset to the transmitter and resets its own counter in order to match the counter of the transmitter with the counter of the receiver.

Therefore, it is deemed that there would be no notable difficulty in constituting such inventions as those of claims 1 to 32 by applying the inventions described in reference 1 to well-known network elements and terminals of

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UMTS.

(Since claims 16 to 29 have no constitution to match the value of a counter defining a data packet number for a received convergence protocol packet (hereinafter referred to as PDCP-PDU) with a convergence protocol packet number (hereinafter referred to as a PDCP-PDU number) sent by a transmitting device, as a constitution to operate as a receiving device which receives the PDCP-PDU to which the PDCP-PDU number is added, the inventions relating to claims 16 to 29 are deemed ones which could easily have been made from reference 1 by a person with ordinary skill in the art.)

[Reason B]

1. Claims 1, 9, 16, 23 and so on include the description of adding a PDCP-PDU number to a PDCP-PDU to be sent in response to performance of a predetermined process of the telecommunications system.
However, the description "predetermined process" alone does not make it clear as to what the process is and it is not clear as to what process is performed prior to adding the PDCP-PDU number to the PDCP-PDU.

Further, the detailed description of the invention only describes adding the PDCP-PDU number to the PDCP-PDU, when discarding of a packet data or handover such that packet loss occurs is performed. Even considering common general technical knowledge at the time of

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filing, it is not possible to extend the inventions described in the detailed description of the invention to the inventions relating to claims 1, 9, 16 and 23 of adding the PDCP-PDU number to the PDCP-PDU to be sent in response to performance of "a predetermined process of the telecommunications system" and therefore it is deemed that the inventions relating to claims 1, 9, 16 and 23 are not the inventions described in the detailed description of the invention.

(Though the descriptions in claims 1, 9, 16 and 23 include the inventions of adding the PDCP-PDU number to the PDCP-PDU to be sent, for example, when a process such as sending or relaying an acknowledgement is performed in the telecommunications system, it is not possible to extend the inventions described in the detailed description of the invention to such inventions.)

2. In the case of claims 1 to 15, it is not clear as to which device (i.e. transmitter, receiver or other device) performs each of the operations, and therefore it is not possible to clearly understand the inventions. (For example, it is not clear as to which device performs the discarding of a packet data or the handover relating to claims 3 or 11.)

3. Regarding the description "the value of the receiver's counter is .... to correspond to ...." in claims 9, it is not clear as to whether or not the description

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".... to correspond to ...." means performing the operation of matching the value of the receiver's counter to...., and therefore it is not possible to clearly understand the inventions.
(The above description should read, for example, "the value of the receiver's counter is matched to ....".)

4. The technical relationship between means of a second counter and other means in claims 16 and 23 is not clear, and therefore it is not possible to clearly understand the inventions.

List of Cited References

1. Japanese Unexamined Patent Publication (Kokai) No. 5-153162

No reasons for rejection have been found at the present time for the invention of the claims other than the claims indicated in this Notice of Reasons for Rejection. If any new reasons for rejection are discovered, a further notification will be issued.

In the event amendments are made, it is suggested that it be confirmed whether or not new matter is added.

Record of Results of Prior Art Search

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· Technical Fields Searched IPC 7th edition
H04L 12/56, H04L 1/14
H04L 13/00 - 08,
H04L 29/00 - 10

· Prior Art References
-US Patent Publication No. 5987137 Specification
-"3rd Generation partnership project; Technical Specification Group Radio Access Network; Packet Data Convergence Protocol (PDCP) Specification (3G TS 25.323 version 3.0.0)", December, 1999

(This record of results of prior art search does not constitute a reason for rejection.)

For inquiries on the content of this Notice of Reasons for Rejection or requests for interview on this case, please contact the above Examiner at the following:

Examination Department No. 4, Data Network Division
Tel: 03-3581-1101, Ext: 3594
Fax: 03-3501-0699